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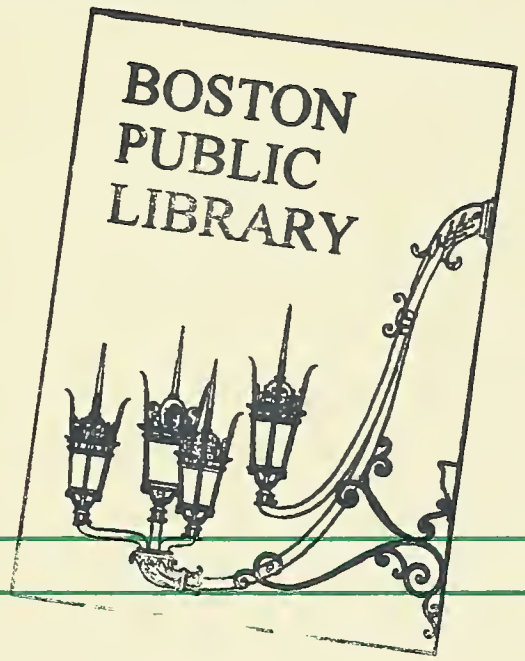
STATEMENT OF QUALIFICATIONS

BOSTON REDEVELOPMENT AUTHORITY

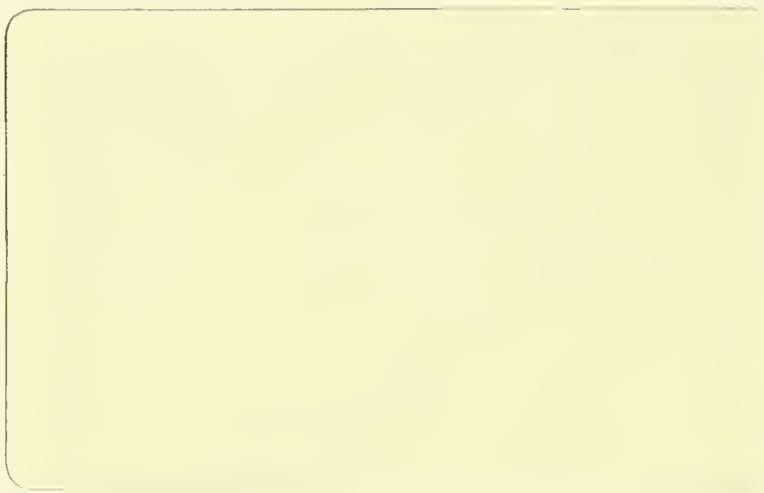
EXISTING CONDITIONS ANALYSIS
PREPARATION OF FULL DESIGN DOCUMENTS
SERVICES FOR RESIDENT ENGINEERING

ST. BOTOLPH STREET



SCHOENFELD ASSOCIATES, INC.
Engineers, Architects and Planners
12 Farnsworth Street
Boston, Massachusetts 02210

An Equal Opportunity Employer M/F



STATEMENT OF QUALIFICATIONS

BOSTON REDEVELOPMENT AUTHORITY

EXISTING CONDITIONS ANALYSIS
PREPARATION OF FULL DESIGN DOCUMENTS
SERVICES FOR RESIDENT ENGINEERING

ST. BOTOLPH STREET

Submitted By:

Schoenfeld Associates, Inc.
12 Farnsworth Street
Boston, Mass. 02210

March 25, 1988

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SCHOENFELD ASSOCIATES, INC. 617-423-5541

ENGINEERS · ARCHITECTS · LANDSCAPE ARCHITECTS · PLANNERS

12 FARNSWORTH STREET · BOSTON · MASSACHUSETTS 02210

March 24, 1988

Mr. Paul Reavis
Boston Redevelpment Authority
City Hall, Room 943
One City Hall Square
Boston, Mass. 02201

RE: RESIDENT ENGINEERING AND DESIGN SERVICES FOR STREET SCOPE IMPROVEMENTS TO ST. BOTOLPH STREET

Dear Mr. Reavis:

Schoenfeld Associates, a wholly woman-owned business is pleased to respond to your solicitation for Resident Engineering and Design Services for Street Scope Improvements to St. Botolph Street. We have selected our project team to meet the needs of the Boston Redevelopment Authority, namely, to be:

- experienced in survey and analysis, full design documentation, contract bidding and preparation assistance, and resident engineering;
- experienced in similar streetscape design projects;
- experienced in working for the BRA and knowledgeable in their procedures and requirements;
- capable of being available, responsive and friendly, ready and able to provide the guidance and professional services that the BRA requires.

Schoenfeld Associates, a wholly woman-owned business conveniently located in Boston, has 27 years of experience serving public and private clients in New England. We are a Massachusetts Certified Small Business and woman-owned business (WBE) qualifying for Small Business Set Aside Programs. Our staff is composed of over fifty dedicated professionals (33% minority status) experienced in landscape architecture, traffic/highway engineering, environmental, civil and structural engineering and survey services.

Our project team has specific related experience for this project. Mr. Andy Sumanadasa, P.E. will be the Project Manager for this contract. He is a civil engineer and has over 15 years experience in roadway reconstruction and traffic engineering. Mr. Sumandasa is currently working as project manager for the MIA Memorial for City Hall Plaza, a BRA project. Having worked for the City of Chicago as a Project Manager for Civil Engineering and Transportation projects, as well as working now for the BRA, he is well-versed in understanding the goals of the Boston Redevelopment Authority. He will head a team of our engineers chosen for their breadth of knowledge in more than one area:

Project Manager - Traffic/Highway Rehabilitation - Andy Sumanadasa, P.E.
Chief Project Engineer - Garrick Goldenberg, P.E.
Landscape Architect - Landscape/Streetscape - Susan Davis, R.L.A.
Project Civil Engineer - Utilities - Albert Moriaty, P.E.
Civil Engineer - Arnold Katz. P.E.
Civil Engineer - Paving, Stress - Moussa Bagate
Site Engineer - Survey, Site, Grading - Gregory Duel

Ms. Susan Davis, a Registered Landscape Architect in Massachusetts, will be the assigned Landscape Architect. As it happens, Ms. Davis lives on St. Botolph Street and was a member of the St. Botolph Street Architectural Conservation District Commission for many years. She has extensive experience relative to this job, having previously worked on many renovation plans for streets, parks and playgrounds for the City of Boston. As President of the Garden Club, she instituted street tree planting for the Back Bay with private funds. A survey was done of the existing trees and also research as to the best species for the new ones. She is an advisor to the Friends of the Public Gardens, has served as a Commissioner to the Boston Landmarks Commision and as Director of the Massachusetts Association for Olmsted Parks. Specifically, we believe, that her experience in designing streetscapes, parks and playgrounds, in writing and preparing site construction documents and specifications, and in acting as liaison with governmental agencies and neighborhood groups makes her the ideal project manager for the BRA St. Botolph Street project.

Schoenfeld Associates is proud to mention our experience relevant to this streetscape project. We are currently under contract, and have been for the last 18 years, to the Boston Redevelopment Authority for street rehabilitation, utilities and waterfront development. We have worked extensively on many road and street rehabilitations as well as parks and playground projects for the City of Boston. We have worked on the Boston Waterfront Development with the BRA for the last twenty years. In conjunction with this project, our design for the Dock Square Park won a national award. We are currently working for the BRA on the MIA monument for the City of Boston. This Commemoration will be the first memorial within City Hall Plaza. We are currently completing construction documents for the Lynn Shore Drive Reconstruction project, an Olmsted designed parkway, for the MDC. In addition, the specification that we prepared for the Carter Playground is now the standard for the City of Boston Parks and Recreation Department.

Schoenfeld Associates has provided a wide range of survey, design and construction services from estimates to resident construction supervision and so is well able to perform this work in a cost-effective and well-organized fashion. Our chosen project team with over 140 years experience in the A/E field will be supported by our multidisciplinary staff.

The fact that Schoenfeld Associates has had on-going contracts with the BRA for the past twenty years is testimony to our ability to work with public agenicies, and the the BRA in particular, and shows that we are familiar with the required reviews.

These successfully completed and continuing contracts with the BRA for the Downtown Waterfront Project is proof of our ability to complete in an expeditious manner the proposed scope of services.

We are excited about this project and the team of professionals which we have assembled to work on it. We believe that their specific related experience and intimate knowledge of the area will provide the BRA with the best team available for this project. Our project team will give the Boston Redevelopment Authoriy project priority status and we are prepared to commence immediately upon notice to proceed. We look forward to the opportunity to provide these services to your staff.

Very truly yours,

SCHOENFELD ASSOCIATES, INC.

Richard J. Schoenfeld III
President

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RELATED EXPERIENCE

Roadway Design and Waterfront Redevelopment, Boston, MA

As consultants to the Boston Redevelopment Authority over the last 18 years, Schoenfeld Associates has prepared environmental documents, plans, specifications, and estimates for $30,000,000 in improvements for various urban renewal projects. The full range of capabilities in our organization has been utilized to overcome the variety of engineering problems encountered in these historic sections of Boston.

Both Urban Systems and TOPICS funding were involved in the Waterfront project. The relocation of North Street between Congress Street at City Hall to the Callahan Tunnel entrance was funded by Urban Systems, and coordinated through the Highway Section of the Massachusetts Department of Public Works. Improvements here included circulation modifications, channelization, pavement markings, signalization, signing, parking and turning restrictions, roadway realignment, minor geometric improvements, and subsurface utilities. A Negative Declaration was also prepared. The North Street relocation was part of the Dock Square project, for which the firm received a national award for the sympathetic treatment of an historic, cultural, or natural environment.

Under the TOPICS program, we prepared all basic and final design specifications for the relocation of Atlantic Avenue along the waterfront. The intersection of Atlantic Avenue and Milk Street was landscaped as a park border road through a residential and small business area. In addition, we designed subsurface drainage features.

Survey and construction inspection services were provided in the project area. Contract documents were also prepared for the installation of lighting, signalization, and paving. In all cases, provision had to be made for the projected development of areas including Government Center, the financial district, and the North End. We worked closely with private developers and coordinated their efforts with the BRA and other agencies. Plans, specifications, and estimates were prepared for specialty contracts such as the restructuring of granite buildings, the construction of parking lots, relocating railroads, and providing services to the New England Aquarium.

Landscaping and the development of mini-parks were important contributions. Numerous design constraints were incorporated into the final plans. The location of subsurface utilities restricted the placement of trees and flower beds. The salt-laden ocean air and the presence of salt in the groundwater limited the selection of plant materials to salt-hardy and pollution-tolerant species. Special subsurface irrigation systems were installed in several parks to assure an adequate water supply.

Another important consideration for creating an urban landscape in historic areas such as Faneuil Hall and Quincy Market was the careful selection of plant and construction materials. All features, including pavers, bollards, benches, lighting fixtures, information kiosks, and waste receptacles were chosen to coordinate with the surrounding structures and planned renovations.

Schoenfeld Associates completed the preparation and processing of all PIC plans in the waterfront area, including the presentation of the plans before the Public Improvement Commission. This office also prepared property plans and parcel delivery plans when required. We worked closely with project developers and coordinated their plans and goals with the BRA and other public and private agencies. As requested, our firm provided consulting services to the BRA for meetings with government and other agencies.

Lynn Shore Drive and Reservation, Lynn/Nahant, MA

This is a current project for the reconstruction and rehabilitation of the Lynn Shore Drive and Reservation. Schoenfeld Associates is providing engineering and landscaping services for a comprehensive program of improvements to the roadway and contiguous shoreline. The roadway's upgrading includes traffic lighting, signage, parking areas, and drainage. Seawall and culvert conditions and stairway access to the beach are also important considerations.

The shoreline design will relate to an overall native landscape theme, one that will complement the engineering aspects and the existing architectural features which include an overlook and an ornamental turret. It will feature bicycle and jogging paths and includes the restoration of a park designed by Olmstead Brothers, landscape architects. The construction budget is $8,000,000.

Public participation has been an on-going process since the inception of the project. Project engineers have attended and made presentations at meetings of community groups in Lynn, Nahant, and Swampscott. The conflicting uses of the Drive - by local residents, commuters, and day visitors - and the conflicting goals of the communities directly involved must all be carefully weighed in arriving at the most felicitous solutions.

Medford Square Traffic Study, Medford, MA

As part of an economic development and improvement program to revitalize Medford Square, Schoenfeld Associates is currently under contract to provide engineering and traffic signal timing services. Included in the project are: turning movement counts at four downtown intersections, re-establishment of

traffic signal warrants, and preparation of a new signal timing plan with evaluation and adjustment as necessary after a trial period. Traffic islands and curblines at several locations are to be modified. We are designing plans to maximize the use of an enlarged surface parking area adjacent to City Hall Mall, with layout of spaces, striping, and signage.

Also included in the contract is the preparation of two alternative concepts for developing the former East Busway into a parking area, and plans to construct a permanent off-street bus facility near City Hall. This will include new pavement, a concrete pedestrian walkway, transit shelters, landscaping, signage, lighting, and drainage improvements.

Phillips Square Chinatown Project, Boston, MA

The firm was contracted by the BRA to redesign the portion of Harrison Avenue from Phillips Square, the juncture with Essex Street, to Kneeland Street. The roadway is to be reconstructed and made uniform in width, cement sidewalks will be replaced with brick, and a small park will be built where Harrison Avenue now widens to let traffic into Chauncy Street. Greater safety will result from the improved traffic circulation. The sidewalk reconstruction, allowing space for park with tree plantings, will create a pleasant oasis for pedestrians and neighborhood office and shop workers on a street busy with truck and automobile traffic. ? POOR DESIGN

This project is part of the Central Business District Urban Renewal Plan and will require continuous interaction with the Engineering and Urban Design Departments of the BRA. The project area, in Boston's Chinatown section, is immediately adjacent to the downtown business and retail districts. It will involve the relocation of the traffic light at the intersection of Kneeland Street and Harrison, and some other minor utility work.

Shrewsbury Street Beautification, Worcester, MA

The City of Worcester retained the firm to supervise a traffic planning study and develop a preliminary streetscape plan to beautify and improve a portion of Shrewsbury Street, a major connector road between Route 9 and Washington Square in downtown Worcester. The plan involves traffic signal modification and signage, with partial reconstruction of the median strip to increase safety in traffic circulation. We will inventory and analyze various street conditions as they affect design potential-- vehicular and pedestrian traffic patterns, existing street furnishings, user experience, local needs, utilities, and related City projects. Feasible alternative designs will be presented to the public, with recommendations for the most appropriate.

The divider will also be aesthetically improved with tree plantings, and both sides of the street will be developed into pedestrian walkways with sitting areas, handicap access, and the elimination of on-street parking.

River Street Parking Lot, Boston, MA

The City of Boston, through its Real Property Department, recently initiated a program to upgrade a number of parking lots, in an attempt to revitalize neighborhood shopping centers. This is also part of a neighborhood beautification plan, with facilities that will be both utilitarian and decorative, featuring architectural details that tie in where possible with the dominant period architecture of the immediate area.

The firm was retained to design the River Street lot in Mattapan, one of the major facilities in the first group scheduled for improvement. A fieldstone wall will surround it, with gateposts marking the entrance and exit. Local merchants are being encouraged to open their shops' rear entrances where they border the lot; these will be well defined and lighted. There will be handicap access from the street, with a wheelchair path through the lot to the store entrances. Tree and shrub plantings will enhance the overall appearance. Pavement markings, signage, and drainage are also part of the project. The budget for construction is set at $350,000.

Traffic Study, Quincy, MA

The firm provided an analysis of future traffic patterns in downtown Quincy, which resulted from revitalization of the central business district, according to the New Center Action Plan. Included in the plan were expanded retail, commercial, and office spaces and construction of an east-west arterial connector. Existing traffic conditions were documented and future volumes projected. Our project engineers recommended the operation of the existing network, with the extension of one road, and designing the east-west connector as a two-way arterial.

Routes 20 and 85, Marlborough, MA

The MDPW retained Schoenfeld Associates to prepare a preliminary design report, and a full environmental impact statement, for a section of Routes 20 and 85 in the City of Marlborough. The project was in conjunction with an urban renewal program proposed by the Marlborough Redevelopment Authority and funded by the U.S. Department of Housing and Urban Development.

The roadway network was designed to alleviate traffic congestion, reduce urban intrusion into residential neighborhoods, open up new areas for commercial development and parking, and generally revitalize the central business district. The project consisted of a full traffic investigation and analysis of four major intersections, highway design, utility inventory, and a detailed examination of the effect of the new roadway network on neighborhood cohesion and business revitalization. Impacts on air and noise were also assessed.

Schoenfeld Associates coordinated the activities of all agencies, including the MDPW, Marlborough Redevelopment Authority, Federal Highway Administration, and the U.S. Department of Housing and Urban Development. Community liaison with neighborhood and user groups was an important factor. Three public meetings were held to generate community participation and to explain potential impacts. Many meetings were also held with business people, elected officials, and special interest groups to maintain local support for the project.

ADDITIONAL EXPERIENCE

LANDSCAPE ARCHITECTURE

Waterfront Park, Boston, MA

Contract documents for stabilization, repairs, restoration, and new construction for the seawalls at the Waterfront Park on Boston Harbor, created under the BRA's Redevelopment Project. Meteorological and tidal considerations were addressed to assure that the proposed work would not be adversely affected by wharf reconstruction.

Boston Common and Public Gardens, Boston, MA

Landscaping, fence repair, drainage, lighting, and rehabilitation of the Swan Boats' Lagoon for Boston's Bicentennial Celebration.

Olmsted Park and Parkway Designs

Renewal of Red Rock Park as part of Lynn Shore Drive/ Reservation project. We have also been responsible for upgrading The Wilderness at Franklin Park, another Frederick Law Olmsted design, and for a study on the parkway system comprised of the Arborway, Jamaicaway, and Riverway.

Samuel Adams Park, Dock Square, Boston, MA

Design of cobblestoned park with tree plantings in front of revitalized Faneuil Hall, built around statue of Revolutionary War patriot. The statue had stood on a traffic island until the relocation of North Street as part of the Downtown/ Waterfront Project permitted the use of this area as a park.

Boston Parks and Playgrounds

At present we are under contract to the Parks and Recreation Department for the reconstruction of Peters Park and Rotch Playground, both in the South End.

SITE PLANNING

Canton Commerce Center, Canton, MA

Master plan and land use planning for 360-acre multiple use industrial site, for shopping/commercial/industrial uses in connection with housing, recreation, and open space.

Elm Park Urban Renewal, Worcester, MA

New utility, highway, and traffic systems construction for a 320-acre, high density residential and business site in the city's downtown area for the Worcester Redevelopment Authority.

ROADWAY

Neighborhood Improvement, Haverhill, MA

Preliminary and final design and construction contract documents for street and utility improvements in the Bradford section for Haverhill Department of Community Planning and Development. The project involved reconstruction of four streets in a commercial and residential area. Work included sidewalk reconstruction, handicap ramps, roadway design, sanitary sewers, storm drains, landscaping and planting, and street lighting. We also monitored the construction phase.

University Avenue and Canton Street, Norwood, MA

Reconstruction of intersection with traffic safety improvements including signal system.

Traffic Safety Improvements, Abington, MA

Reconstruction of sidewalks and roadways at intersection in downtown area.

Urban Renewal, City of Somerville, MA

Preparation of design plans and estimates for the reconstruction of roadways adjacent to a large urban renewal project, including drainage design and utility relocation.

CITY OF BOSTON PROJECTS

Public Facilities Department

Landscape Architecture of Playing Fields and Tracks at East Boston Recreation Center, East Boston

Improvements to the Hyde Park and Fields Corner Branch Libraries

Jamaica Plain Fire Station, Site Work and Grading

Boston City Hall, Space Planning for several departmental offices

Various Architectural Services

Various Civil/Structural Services

Paris Street Gymnasium Renovation, East Boston

L Street Bathhouse Fence Restoration, South Boston

Central Maintenance Garage Structural Repairs

Parks and Recreation Department

Rehabilitation of Playing Fields at Carter Playgound, Roxbury

Peters Park and Rotch Playground, Landscape Architecture, South End, Boston

Real Property Department

Design of River Street Parking Lot, Mattapan

Inspectional Services Department

Personal Service Contract, Review Team in Plans Review Section

Boston Redevelopment Authority

Redesign of Phillips Square, Chinatown Project

Design Atlantic Avenue Viaduct

Special Recognition

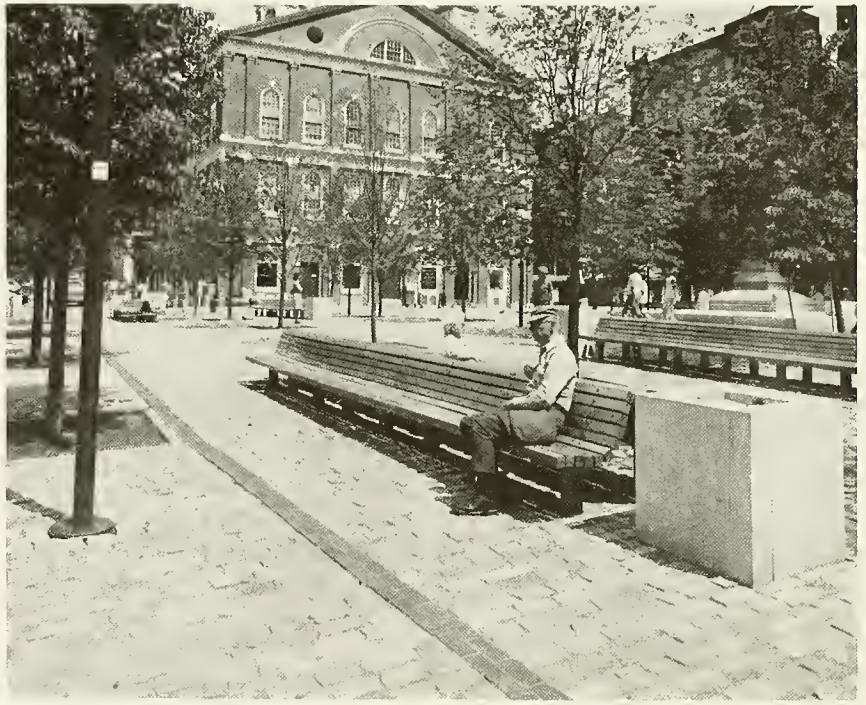
The Massachusetts Department of Public Works and the Boston Redevelopment Authority recently took third place national honors for Boston's Dock Square project in the U.S. Department of Transportation's 1978 "The Highway and Its Environment" award competition. Schoenfeld Associates, Inc. was the project designer for this combined park and roadway contract. Dock Square features a treelined cobblestone park with a statue of Samuel Adams in the center.

Schoenfeld Associates, Inc. is the engineering consultant to the Boston Redevelopment Authority in the 150-acre Waterfront project area encompassing Faneuil Hall, Quincy Market, the Mercantile Building, wharves along the harbor and sections of the North End. Contracts performed for the Boston Redevelopment Authority have ranged from seawall reconstruction to utility design and roadway relocation. In Dock Square, Schoenfeld Associates, Inc. designed the park in front of Faneuil Hall and upgraded North Street from Congress Street to the tunnel entrance.

The Boston Redevelopment Authority and the Massachusetts Department of Public Works proposed this project to enhance the historical setting and support retail development by eliminating traffic congestion in the Callahan Tunnel approach area. The revitalization of the entire Faneuil Hall-Quincy Market district complex has attracted national and even international acclaim.

To improve traffic circulation, North Street was relocated and major intersections were signalized. This part of the project was funded by TOPICS. The Massachusetts Department of Public Works also provided field inspection during construction. Schoenfeld Associates, Inc. worked closely with both the City of Boston and Massachusetts Departments of Public Works regarding the design of this roadway.

The area around the Samuel Adams statue previously was an unchannelized traffic circle. Once North Street was relocated, a park was designed adjacent to both North and Congress Streets in front of Faneuil Hall. Park benches located in the shade of little leaf linden trees provide a popular respite for tourists on the Freedom Trail, shoppers at the market place, and officer workers from the Government Centre. Other features of the park, illustrated in the accompanying photographs, are



granite waste baskets, drinking fountains and street lighting. Special glazed red brick marks the Freedom Trail; the remainder of the area is paved with granite cobbles. The Mayor's Walkway to the Sea also crosses the south side of the park.

"The Highway and Its Environment" Award competition has been conducted by the Federal Highway Administration for the past ten years. Through this annual program, the U.S. Department of Transportation acknowledges and honors the significant achievements of state, county, and local highway agencies; freeway and toll authorities; and civic, business and industry organizations in combining the highway with the environment. Selection of winners is based upon the contestants' success in creating highways or highway-oriented improvements which reflect relatively new concepts of the highway not only as a means of transportation, but also as a means of protecting and enhancing the beauty, natural resources, ecology, history and urban health of the environment.

Federal Highway Administration

The Highway And Its Environment Tenth Annual Awards 1977

Outstanding Sympathetic Treatment of Historic, Cultural, or Natural Environment

Dock Square in Faneuil Hall Marketplace

Third Place

Schoenfeld Associates, Inc.
Boston, Massachusetts

William M. Loose

Administrator

Brock Adams

Secretary of Transportation

REFERENCES

REFERENCES

Schoenfeld Associates has established an excellent reputation among its many clients since its founding in 1960. We wish to submit the following references for your consideration:

Medford Office of Community Development
City Hall
Medford, MA 02155
Ms. Lauren DiLorenzo, Director
Telephone (617) 396-5500

Boston Parks and Recreation Department
294 Washington Street
Boston, MA 02108
Mr. Stanley Ivan, Chief Engineer
Telephone (617) 542-3071

Boston Redevelopment Authority
Boston City Hall, 9th Floor
One City Hall Square
Boston, MA 02201
Mr. Basil Adams, Contract Manager
Telephone (617) 722-4300, Ext. 346

RESUMES

PERSONNEL

Project Team

To ensure the delivery of a professional product that will meet the City's needs, Schoenfeld Associates has selected its most qualified individuals to oversee this study.

We would assign our Principal Civil Engineer, Mr. Andy Sumanadasa, to be the Project Manager because of his experience in both transportation and urban planning. The Project Manager will be responsible for the day-to-day control of the project.

We want the City to know that Schoenfeld Associates is committed to this project. We have assigned only the people whom we are able to commit for the duration of this assignment. The listing is as follows:

PROJECT TEAM

Project Manager	Ananda Sumanadasa P.E.
Chief Project Engineer	Garrick Goldenberg, P.E.
Project Civil Engineer	Al Moriarty P.E.
Civil Engineer	Arnold Katz, P.E.
Civil Engineer	Moussa Bagate
Site Engineer	Gregory Duel
Landscape Architect	Susan Davis, RLA

Ananda "Andy" Sumanadasa, P.E., Project Manager

EXPERIENCE

Mr. Sumanadasa has an excellent background in project management, engineering (general civil, traffic, transportation and highway), transportation planning, engineering economy, and project cost control. He has developed special expertise in intersection design studies, accident evaluation, and alternatives analysis, and in the preparation of Categorical Exclusions and Environmental Assessments. He has been responsible for public presentations, contract negotiations, feasibility studies, and cost-benefit analyses.

PROJECTS

Lynn Shore Drive Reconstruction/Restoration, Lynn, MA
Improvements to one mile of this Olmsted parkway consisting of roadway realignment and reconstruction, signal modernization, rotary improvements, landscaping and seawall repair.

Woodruff Avenue Reconstruction, So.Kingston/Narragansett, RI
Roadway reconstruction of 1.2 miles requiring signal modernization, utility reconstruction and right-of-way takings.

Auto Auction Site, Northborough, MA
Site planning of a 75 acre lot including roadway and utility design.

Signalization and Intersection Improvements at Washington and Bridge Streets, Salem, Massachusetts

Project Manager for Federal Aid Urban System Program, MFT, and Build Illinois funded projects including street reconstruction, intersection improvements,traffic signal modernization, and viaduct clearance improvements. As Project Manager for the Lincoln Park (Chicago) Traffic Study he supervised the planning, traffic and accident studies, and coordinated the project with the Park District, the Motor Fuel Tax Program and the local community.

Urban Development Authority, Colombo, Sri Lanka
Transportation Component of Colombo Master Plan

- Route location studies
- Highway/railroad network for new town
- Improvement of mass transit (for World Bank)
- Traffic and parking studies
- Land development

South East London (England) Transportation Study - Production of land use/transportation models, and use of models for traffic projections, traffic schemes, and evaluation of alternative alignments.

S.W. Hertfordshire (England) Transportation Study - town center studies and conceptual design of town center by-pass routes

EDUCATION

Northwestern University, Illinois, 1984
Masters in Engineering Management (M.E.M.)

Middlesex Polytechnic, England, 1976
Postgraduate Diploma in Transportation Planning

Cambridge University, England, 1975
Master of Arts and Bachelor of Arts (with Honors) in Engineering with Civil Engineering major

REGISTRATION

1984 - Civil Engineering - Illinois #062-042151

AFFILIATIONS

American Society of Civil Engineers
Institute of Transportation Engineers

Garrick N. Goldenberg, P.E., Chief Engineer

EXPERIENCE

Mr. Goldenberg is in charge of all architectural and engineering projects and technical personnel. He provides technical leadership, monitors the progress of all projects generated by the firm, and is responsible for quality and cost control. He has over twenty years of project management and structural engineering experience. He has managed multi-million dollar projects from schematic design through construction services. These include marine/waterfront structures, fixed and moveable bridges, parking facilities, and industrial and commercial buildings. His background also includes water transmission and other utility and power plant design projects.

PROJECTS

MBTA Broadway/Andrew Red Line Stations Modernization and Platform Lengthening - requiring coordination of architectural, civil, geotechnical, structural, mechanical and electrical disciplines. Project consisted of structural modifications to subway tunnels and third rail power systems, roadway realignment and detours, and utility reconstruction with temporary support systems.

Shipyard Quarters Sundeck - Charlestown Navy Yard, Charlestown
Project Manager for design and construction of a 7,000 SF Pier/Sundeck

Route 115, Carroll to Jefferson, New Hampshire
Project included realignment of 6.5 miles of roadway requiring temporary detours, design of eight culverts and miscellaneous retaining walls.

Signalization and Intersection Improvements at Washington and Bridge Streets, Salem, Massachusetts

Maintenance Carhouse Facility at MBTA Reservoir Yard, Cleveland Circle, Brookline, MA

Chelsea Street Bridge Pier and Fender Repairs, Boston, MA
Repairs to Harvard, Northern Avenue and Charlestown Bridges
These projects required traffic management plans including traffic signalization.

EDUCATION

Northeastern University, 1984
Master of Science in Structural Engineering

Institute of Civil Engineering, 1972
Kuibyshev, USSR,
Master and Bachelor of Science in Structural and Construction Engineering

Garrick N. Goldenberg, P.E., Chief Engineer

REGISTRATION	1982 - Massachusetts - Structural Engineer - #30825 Maine #5140; New Hampshire, #7036; Connecticut, #15100
AFFILIATIONS	National Society of Professional Engineers American Society of Civil Engineers American Concrete Institute Construction Specification Institute
PUBLICATION	"Put the Responsibility Where it Belongs", Consulting Engineer Magazine

Albert J. Moriaty, P.E., Project Civil Engineer

EXPERIENCE

Throughout his 37 years with Schoenfeld Associates, Mr. Moriaty has been involved in a number of water, sewer, and drainage projects. He was a member of the project team working on the BRA's Downtown/Waterfront Redevelopment, which brought about a revitalization of the Boston Waterfront area. The water and sewer contracts amounted to more than $7 million. For this project, Mr. Moriaty worked closely with the BRA, as well as with the Boston and Massachusetts Public Works Departments, Massachusetts Turnpike Authority, and Massachusetts Bay Transportation Authority.

PROJECTS

Downtown Waterfront Project, Boston Redevelopment Authority
Assistant Project Manager in charge of drainage and sewer studies, street alignment studies, profiles, and computer programming. Project cost $19 million.

Roadway design, alignment and drainage studies for Interstate-84 in Southbury, CT. Complex underdrain systems for wet slope/high ground water conditions. Cost $4 million.

Design and alignment for relocation and widening of Route 128, Wellesley, Newton, Weston. Included supervision of field survey.

Boston extension of Massachusetts Turnpike, water and sewer studies, design and calculations of final alignment. Cost $13 M.

Relocation of Route 2 in Fitchburg, Westminster, and Leominster, MA. In charge of design, alignment, profiles, land-taking research. Cost $3.5 million.

Alignment and profile studies, calculations and estimates for Route 119, Appalachian Highway System, West Virginia. Unique mountain cuts and land fills with many bridges.

EDUCATION

Northeastern University
Studied Civil Engineering

REGISTRATION

1972 - Professional Engineer - Civil - Massachusetts #26519

Arnold Katz, P.E., Senior Structural Engineer/ Principal

EXPERIENCE

Mr. Katz has been with Schoenfeld Associates since its founding more than 30 years ago. He has more than 40 years experience in civil engineering, marine/waterfront design, bridge and viaduct design, and wharf rehabilitation. Mr. Katz was responsible for the supervision of all of the firm's engineering projects, including the BRA's Downtown/Waterfront Redevelopment project, commercial and industrial building design, highways, bridges, urban renewal studies, and transportation systems. His experience includes technical consultation, construction supervision and providing expert witness testimony on a broad range of engineering topics.

PROJECTS

Boston Waterfront Development, Downtown Waterfront Park,
Boston Redevelopment Authority, Boston, Massachusetts
Project Manager/Consultant for design and rehabilitation of piers, wharves and seawalls; Technical consultation to project engineers.

Rehabilitation of Pier No. 5 and Drydock No. 4,
Economic Development and Industrial Corp., South Boston, MA.
Project Manager responsible for restoration/replacement of the former South Boston Naval Shipyard, a $2.6 million project.

Rehabilitation of Berths No. 12, 14, 15 and 16, Castle Island Terminal, Massachusetts Port Authority, South Boston, MA
Project Manager - dealt with the hazardous conditions and the marine borer infestation at Berth 16

Cruise Terminal Facility, Boston Army Base, South Boston, MA
Technical Consultant on civil aspects of rehabilitating existing bulkhead and pier for conversion to Cruise Facility

South Basin Pier Marina, Portsmouth Naval Shipyard, Portsmouth, NH
Project Manager for design of marine facilities at Naval Station

Rehabilitation of Pickering Wharf, Salem, MA
Designed bulkhead and boat mooring facilities in Salem Harbor

Victoria Station Pier and Bulkhead, FortPoint Channel, Boston, MA
Designed and supervised dock and bulkhead replacement

EDUCATION

Northeastern University - 1948 - Masters - Civil Engineering
Northeastern University - 1947 - BS - Civil Engineering

REGISTRATION

1954 Civil/Structural - Massachusetts # 6786
1960 Civil/Structural - Rhode Island # 2493
1966 Civil/Structural - Vermont # 2396

Moussa Bagate, Ph.D, Civil Engineer

EXPERIENCE Mr. Bagate has five years of solid airport design experience working for the Center of Transportation Research at The University of Texas At Austin. There he conducted full-time research on two airport runway design projects and taught "Airport Engineering", a senior design course. He was also Field Researcher at the LBTP laboratory where he supervised a field investigation of lateritic gravels which included laboratory and statistical analyses. His prior work experience included being an apprentice in Airport Engineering for the DCAC. Mr. Bagate has extensive knowledge of computer programming,specifically with the Transportation Programs NETSIM, UTPS, TEXAS Model, PASSER II, and ELSYM-5.

EDUCATION University of Texas at Austin, 1987
Doctorate in Civil Engineering - Transportation
Dissertation: "A Mechanistic Design for Thin-
Bonded Concrete Overlay Pavements", for airport runways.

University of Michigan, 1981
Masters in Civil Engineering

REGISTRATION EIT - 1986 - Texas

AFFILIATIONS Transportation Research Board
American Concrete Institute
Association of Asphalt Paving Technologists
American Society of Civil Engineers

Gregory Duel, Civil Engineer

EXPERIENCE Mr. Duel has 27 years experience in site engineering, planning and design of large transportation projects, including highways, roadways, canals, bridges, and urban transit projects. He has managed site design and specification preparation for large scale transportation and residential complexes, hotels, power plants, and commercial and institutional buildings, including the design of utilities, drainage and grading. He is also experience in field surveying and in specification preparation for parking facilities, highways, railroads and subways. His recent work has been in the areas of road design, land development and surveying including the design of subdivisions, road systems, and storm/drainage systems.

PROJECTS Subdivision of Belport Farms, Framingham, MA.
Responsible for site design, utility planning, street design and grading/drainage system.

Hospital parking facility, Needham, MA
Survey and design of utilities, grading and traffic plans.

Transportation System, Dept. of Highway and Site Development, Kharkov, USSR. Project Manager for site design and planning for new railroad station, city and roads, including hotel and utilities for Kanev, a new city built around a new hydro station.

Highway design for 200 miles of new higway, Donbass Region, USSR. Manager of Site Development for project including design, grading and drainage.

Connecting Canal and associated new transportation systems between Dniepe River and the Black Sea. Site design for canal, roads, and railway terminus in Ukraine region, USSR.

New Bridge and transportation planning for Dneproges, USSR.
Included trolly lines and terminus, and railroad and highway plans.

EDUCATION BS in Civil Engineering and Surveying,1961
Kharkov University, Kharkov, U.S.S.R.

Susan S. Davis, R.L.A., Landscape Architect

EXPERIENCE

Ms. Davis has 20 years of experience in environmental planning for conservation and recreation projects, research and writing of planning reports and park master guidelines, and site and planting designs for public authorities. She has been a liaison with governmental agencies, neighborhood communities and property owners. Ms. Davis has also served as Commissioner of the Boston Landmarks Commission and Director of the Massachusetts Association for Olmsted Parks.

Landscape Architectural Experience:

* Environmental planning for conservation and recreation projects and land use guidelines.
* Site and planting designs through construction documents and specifications for public authorities, architects, engineers and individual clients.
* Cost estimating for new cities and specific project sites.
* Research and writing for planning reports, park master plans, development proposals and marketing efforts.
* Liaison with governmental agencies, neighborhood committees and property owners.

Researched land development recommendations and site projects for:

* The Conservation and Recreation Plan for the Boston Harbor Islands: natural and man made conditions, access, use demands, conservation areas and legal issues.
* The Federal 208 Water Quality Project: critical environmental constraints in regard to water quality for Metropolitan Boston communities.
* Private clients: program requirements, land conditions and town by-laws for property improvements and new developments.
* Narraganset Bay Sewage Treatment Facility: plant materials for difficult site conditions and use requirements.
* Olmsted Park System, "Emerald Necklace": location, identification and horticultural requirements of woody plant materials.

Collaborated with other professionals and clients for:

* Regional and local planning concerns with advisory committees and town boards.
* Site development proposals, budget criteria, construction specifications and project implementation with public authorities and private clients.
* Design controls of historic buildings, parks and districts with owners and elected officials.

Designed from master plan recommendations and site specific proposals for:

*Architects: site and planting plans for multi-family housing, playing fields commercial developments and campus plantings.
*Massport: ballfields and urban street tree plantings.
*City of Boston: renovation plans for parks and playgrounds.
*City of Cambridge: design and construction documents for improvements to Fort Washington Park, a national historic site.
*Town of Barnstable: design and construction documents for renovations to the Hyannis Village Green, under the Massachusetts City and Town commons Program, and the Hyannis Candlelight Parking Lot.
* Private Clients: site and planting plans for urban courtyards and suburban sites of several acres.

Resolved Problems in planning and site developments for:

*Metropolitan Boston communities: incompatible land uses and environmental protection.
*City of Boston: playground circulation, activity nodes and tree plantings for Commonwealth Avenue Mall.

Representative projects include:

Fort Washington Park, a national historic site
Cambridge, Massachusetts

Commonwealth Avenue Mall, Boston, MA

Hyannis Village Green, Barnstable, MA

Conservation and Recreation Plan for the Boston Harbor Islands

Van Cortland Park Master Plan, a 219 acre park,
Bronx, New York City, NY

EDUCATION

Master of Landscape Architecture, 1968
Harvard Graduate School of Design

Bachelor of Arts in Architectural Sciences, 1961
Radcliffe College

REGISTRATION

Massachusetts - 1968 - Registered Landscape Architect

AFFILIATIONS

Garden Club of the Back Bay, President
Friends of the Public Gardens and Commonwealth Mall
Arnold Arboretum

AFFIRMATIVE ACTION

AFFIRMATIVE ACTION POLICY STATEMENT

Schoenfeld Associates, Inc., a consulting engineering firm with over 25 years of experience, is a Woman-Owned Business. Upon the passing of our Founder, Richard J. Schoenfeld, Jr., in March, 1983, 100% of the corporate stock and management of the firm has been transferred to Mary J. Schoenfeld, thus qualifying Schoenfeld Associates as a Women's Business Enterprise (WBE), with certification by S.O.M.B.A. Mary J. Schoenfeld, the firm's Chief Operating Officer as well as Owner, is continuing the outstanding reputation of Schoenfeld Associates by maintaining a constant participation in the firm and upholding the company's high requirements of affirmative action.

Schoenfeld Associates has had an aggressive Affirmative Action Program for several years. The firm is currently over the 25 percent mark in minority employment and is continually striving to improve this record even further.

It has always been the policy of Schoenfeld Associates to provide equal employment opportunity; we have undertaken Affirmative Action to ensure that no person will be discriminated against on the grounds of race, color, sex, religion, national origin, age, marital status, physical handicap, criminal record, ancestry, or political beliefs.

The firm will further attempt to insure that no reduction occurs in the present percentage of minority and women employees; to make a concerted effort to increase the number of minority and women applicants in professional positions, to continue to update the Affirmative Action Plan as required to reflect changes in the laws, and, when recruiting, to contact all appropriate employment services and schools as deemed necessary.

It is the continued goal of Schoenfeld Associates to improve its Affirmative Action Program through hiring procedures, personnel procedures, and contractual agreements with minority subconsultants. To eliminate any discrimination, each project manager is critically analyzed to insure that equal opportunity is provided to each employee. Positive and aggressive measures are undertaken to eliminate discrimination problems in recruiting, hiring, training, and promoting minorities.

Thus, Schoenfeld Associates is committed to a program of Affirmative Action in order to assure employment opportunity for all people. This commitment is made in keeping with Title VII of the Civil Rights Acts of 1965, Federal Executive Order 11246.